

ABSTRACT OF THE DISCLOSURE

5 A method and apparatus in which fibrous waste is  
processed under initial over-pressure conditions is  
disclosed. Once the fibrous waste has been loaded into  
an autoclave, a compressor pressurizes the chamber,  
following which caustic swelling and debonding solution  
is injected into the chamber. In a further embodiment, a  
caustic solution is introduced into the fiber slurry  
output from an initial separation stage, following which  
10 negative pressure is maintained for a period of time  
chosen to enhance the desired debonding. In yet another  
embodiment of the present invention, de-inking solution  
is introduced into an initial fibrous waste processing  
stage which operates at super- or sub-atmospheric  
15 pressure.

264881

10037527.010402